ABSTRACT OF THE DISCLOSURE

A programming platform for generating parts programs for a machine tool or production machine is described. A user inputs an instruction to an interpreter integrated in the programming platform, a simulator then simulates an effect of the instruction, and a display graphically displays to the user the effect of the instruction in the form of a two-dimensional or three-dimensional representation. A collision monitor monitors the effect of the instruction to determine if a collision between two or more machine elements and/or workpieces and/or tools can be expected. The programming platform hence represents a homogeneous integrated programming environment for generating, simulating and testing of parts programs for machine tools and production machines.